Name: \_\_\_\_\_\_\_\_\_\_\_\_ Date:

Homework 5-3

1) Determine the domain and range of each relation below. Then determine if the relation is or isn’t a function.

a) (1,3) (2,5) (2,4) (3,0) (4,4) b) 

Domain:\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_

Is this a function? Explain. Is this a function? Explain.

c) d)

 1 2 3 4 5 6

Domain:\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_\_Range:\_\_\_\_\_\_\_\_\_\_\_\_

Is this a function? Explain. Is this a function? Explain.

|  |  |
| --- | --- |
| **x** | **y** |
| -2 | 5 |
| 0 | 5 |
| 2 | 5 |
| 4 | 5 |

e) f)

Domain:\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_ Domain:\_\_\_\_\_\_\_\_\_\_\_Range:\_\_\_\_\_\_\_\_\_\_\_\_

Is this a function? Explain Is this a function? Explain.

|  |  |
| --- | --- |
| 1. **The graph of the line f(x)=-3x-9 is shown.**

**Determine its x-intercept, slope and the y intercept, Domain and range*** **Acceptable Formats**
* an integer, like 6
* an *exact* decimal, like 0.75
* a *simplified proper* fraction, like 3/5
* a *simplified improper* fraction, like 7/4
* a mixed number, like 1 3/4

https://ka-perseus-graphie.s3.amazonaws.com/5fe7074e185d7e2e92c41c829b3154dd6c258903.png | **2) Given** H(x) =$1.5^{x}$Identify what type:Domain:Range:http://mathbits.com/MathBits/StudentResources/GraphPaper/10x10.gifEvaluate H(3)Graph it: |
| **3)** Graph f(x) =$-x^{2}$**Name the function****Find the Domain and range.**http://mathbits.com/MathBits/StudentResources/GraphPaper/10x10.gif | **4)** **Graph G(x)** = $2\left|x\right|$**Name the function****Find the Domain and range**http://mathbits.com/MathBits/StudentResources/GraphPaper/10x10.gif |